

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch

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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002120**Date Inspected:** 28-Apr-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:****Bridge No:** 34-0006**Component:** OBG Components**Bid Item:****Lot No:** B- 278**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) S. Manjunath. Math was present during the times noted above for observations relative to the work being performed.

Inspection for Surface Preparation and/or Coating Application.

Tower Components Inspection Request No. T331

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the 18M skin A cover assembly (façade lift 1 South and Lift 1 West) 30 Pieces 18M skin A cover assembly (façade lift 1 East and Lift 1 North) 30 Pieces for Surface Preparation before applying Primer coat at blasting workshop no.2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Rejected by AFB QA's as grinding and re-blasting required and few of them required weld defects repair and Caltrans QA concurred with the ABF QA's Inspection.

Tower Components Inspection Request No. T332

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the 28M skin A cover assembly (façade lift 1 East and Lift 1 North) 30 Pieces for Surface Preparation before applying Primer coat at blasting workshop no.2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

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Inspection Conclusions: Rejected by AFB QA's as grinding and re-blasting required and 1 deep gouge area re-welding recommended and Caltrans QA concurred with the ABF QA's Inspection.

Tower Components Inspection Request No. T333

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Tower Components Dry Film Thickness (DFT) check for Struts Splices (408 Pieces) and Strut (11 Pieces) at painting workshop no.2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Rejected by ABF QA's as High-Low DFT observed and Caltrans QA concurred with the ABF QA's Inspection.

Tower Components Inspection Request No. T334

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the 18M skin A cover assembly (façade lift 1 South and Lift 1 West) 30 Pieces 18M skin A cover assembly (façade lift 1 East and Lift 1 North) 30 Pieces for Surface Preparation before applying Primer coat at blasting workshop no.2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by AFB QA's except one piece of 18M skin A cover assembly (façade lift 1 South and Lift 1 West) and Three pieces of 18M skin A cover assembly (façade lift 1 East and Lift 1 North) as weld defects repair welding is balance (for further details refer Inspection Request no. T331) and Caltrans QA concurred with the ABF QA's Inspection.

Tower Components Inspection Request No. T335

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the 28M skin A cover assembly (façade lift 1 East and Lift 1 North) 30 Pieces for Surface Preparation before applying Primer coat at blasting workshop no.2 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by AFB QA's except one piece of 28M skin A cover assembly (façade lift 1 East and Lift 1 North) and Caltrans QA concurred with the ABF QA's Inspection.

Splices Inspection Request No. 3223

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Splices X38L total 56 pieces at blasting workshop no.2 for surface preparation before applying primer coat at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's after minor grinding and re-blast and Caltrans QA concurred with the ABF QA's Inspection.

Handrail Inspection Request No. 3224

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A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Handrails 40 pieces for Surface preparation before galvanizing at galvanizing workshop at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Diaphragm Splice Inspection Request No. 3225

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG Internal Diaphragm splice X3P faying surface for Segment 11CE for surface preparation before applying the primer coat at west gate of the blasting workshop at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's three locations surface profile test performed and recorded 77~84 microns and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Ceiling Inspection Request No. 3226

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG Internal Ceiling for Segment 9EW for Pre-blast Visual Test (VT) fabrication inspection and residual chloride Test at blasting workshop no.1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Pre-blast VT fabrication inspection Rejected by ABF QA's as Grinding and MT was recommended, two locations salt tests performed with 13.9 and 14.7 microns/cm and Caltrans QA concurred with the ABF QA's Inspection.

OBG Cross Beam Terminal Bottom Plate External Inspection Request No. 3227

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG Cross Beam terminal bottom plate external surface for Segment 8CW for Surface preparation, DFT check, Residual Chloride Test at blasting workshop no.1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's two locations salt tests performed with 28.5 microns/cm and MEK tests at Grade 5 and Caltrans QA concurred with the ABF QA's Inspection.

Splices Inspection Request No. 3228

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the Splices 224 pieces at blasting workshop no. 2 for Degreasing and Cleaning at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Ceiling Inspection Request No. 3229

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A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG Internal Ceiling for Segment 9EW for Surface Preparation prior to applying primer coat at blasting workshop no.1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Rejected by ABF QA's nine locations profiles test conducted and recorded surface roughness as 58 to 82 microns and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Ceiling Inspection Request No. 3230

A joint three party inspection was performed by ZPMC QC's, ABF QA's and Caltrans QA for the OBG Internal Ceiling for Segment 9EW for Surface Preparation prior to applying primer coat at blasting workshop no.1 at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC).

Inspection Conclusions: Accepted by ABF QA's and Caltrans QA concurred with the ABF QA's Inspection.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

No Relevant Conversation

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric T Sang 1500-0042-2372, who represents the Office of Structural Materials for your project.

Inspected By:	Math,Manjunath	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer
